1. Panel loudspeaker

with a core layer (13) and at least one cover layer (140, 14u),

with a periphery (12) that surrounds the panel loudspeaker (11) with a lateral gap

(A), and

with connecting elements (17, 17') that connect the panel loudspeaker (11) with the periphery (12),

wherein the connecting elements (17, 17') are under mechanical tension when connected with the periphery (12),

characterized in

that also the regions of the cover layers (14o, 1/4u) that are connected with the core layer (13) are under mechanical tension.

2. Panel loudspeaker according to claim 1.

characterized in

- that the connecting elements (17/17') are formed by the cover layer(s) (14o, 14u) of the respective panel loudspeaker (11) in that at least one of the cover layers (14o, 14u) of the respective panel loudspeaker (11) extends to the periphery (12).
 - 3. Panel loudspeaker according to claim 1 or claim 2,
- characterized in 20

that the periphery is formed by a frame (19).

4. Panel loudspeaker according to claim 1 or claim 2,

characterized in

that the periphery (12) of a panel loudspeaker (11) is formed by at least one additional panel (10).

5. Panel loudspeaker according to claim 1 or claim 2,

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IJ Ф that the respective connecting elements (17, 17') are provided with tension strips (20) on the marginal edges (24") that are connected with the periphery (12),

that the periphery has edges (21) that are contacted by the tension strips (20)

that for a panel loudspeaker (11) that has not yet been connected with the periphery (12), and that for a panel loudspeaker (11) that has not yet been connected with the periphery (12), the distances (A') between the tension strips (20) and the coordinate lines (x, y) extending through the center of the respective panel loudspeaker (11), are smaller than the distances (A") between the edges (21) and the coordinate lines (x, y) that also extend through the center of the

periphery (12).

6. Panel loudspeaker according to one of the claims 1 to 5, characterized in

that the panel loudspeaker (11) is a bass panel adapted to reproduce low-frequency sound.

7. Panel loudspeaker according to claim 1 q claim 6,

characterized in

that the core layer (13) and/or the connecting elements (17, 17') are provided with damping elements (30).

20 8. Panel loudspeaker according to claim 7,

characterized in

that the mechanical tension in the connecting elements (17, 17') is different from the mechanical tension in the tensioned cover layers (14o, 14u).

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